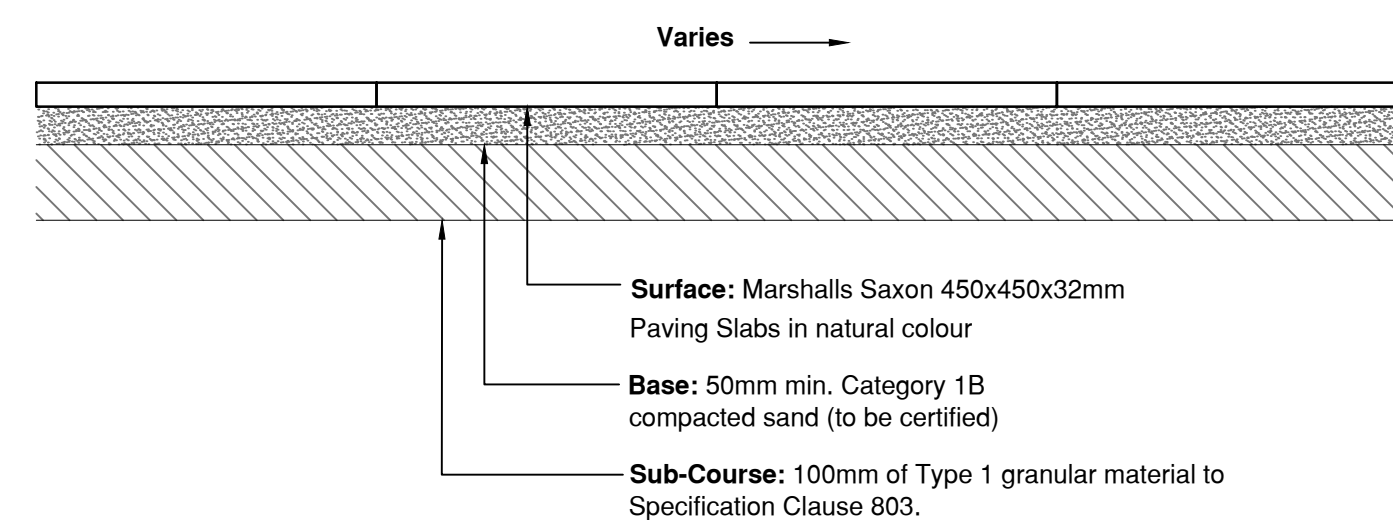
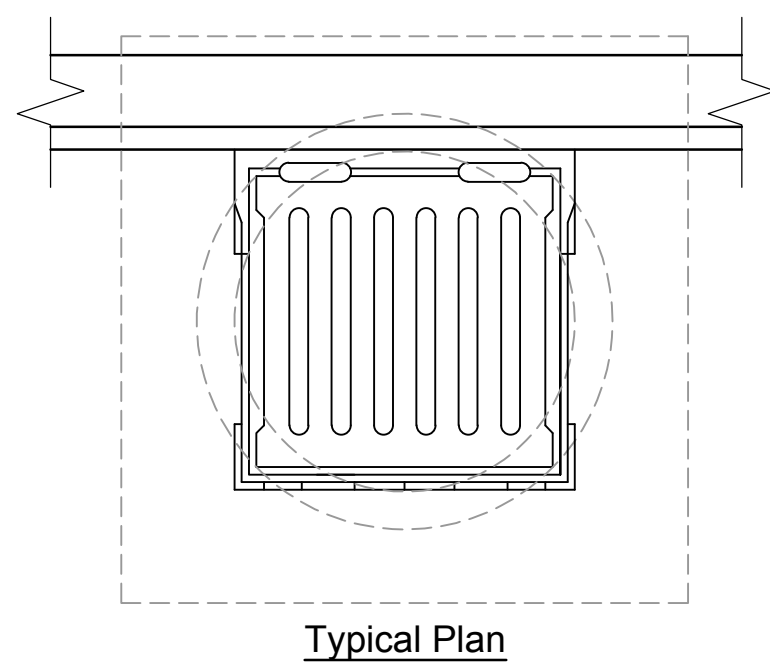
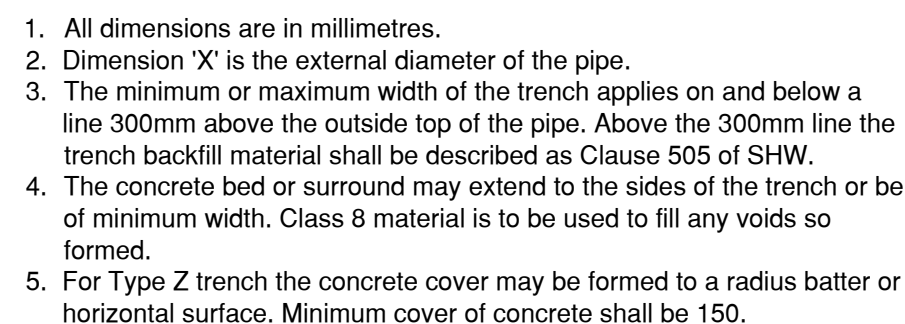
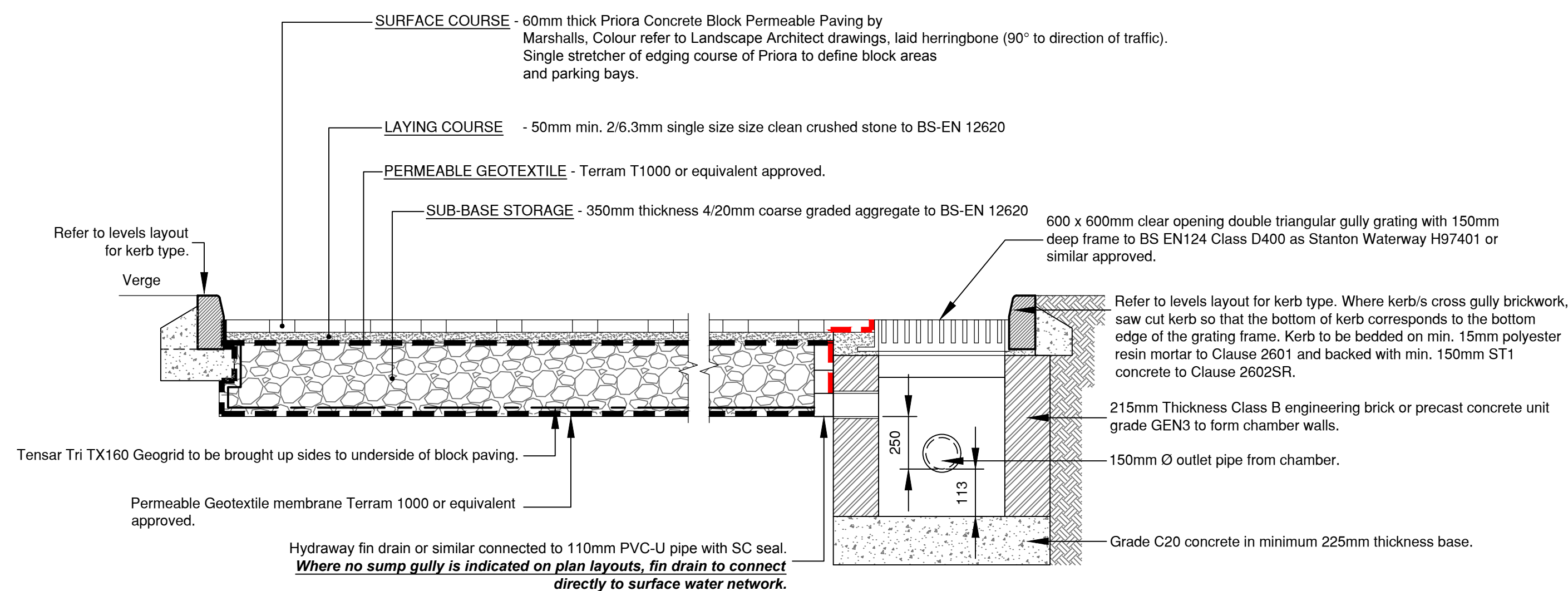




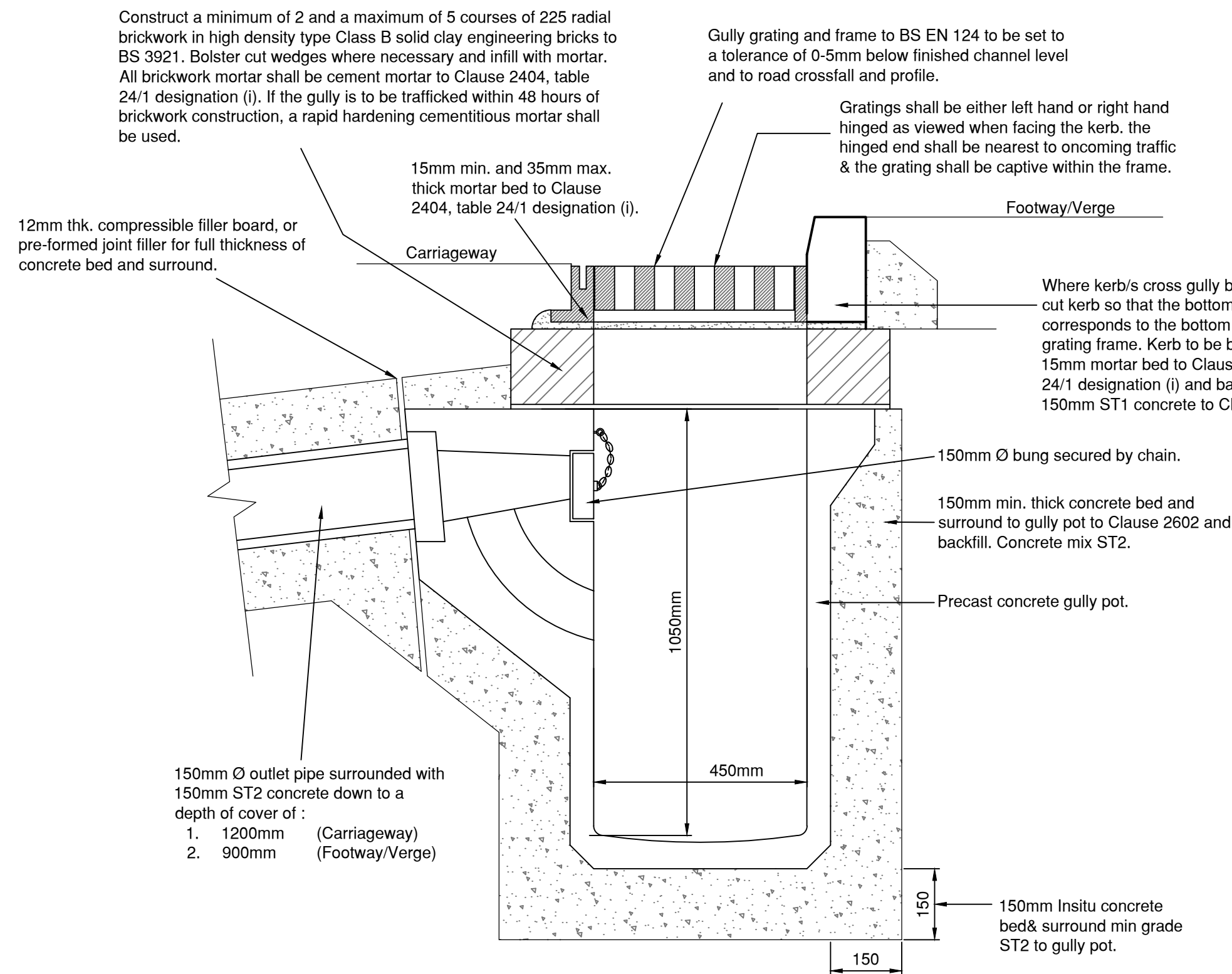
Typical Garden Patio Construction Detail



Permeable Block Paved Private Drives Construction Detail

(TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDANCE AND RECOMMENDATIONS)

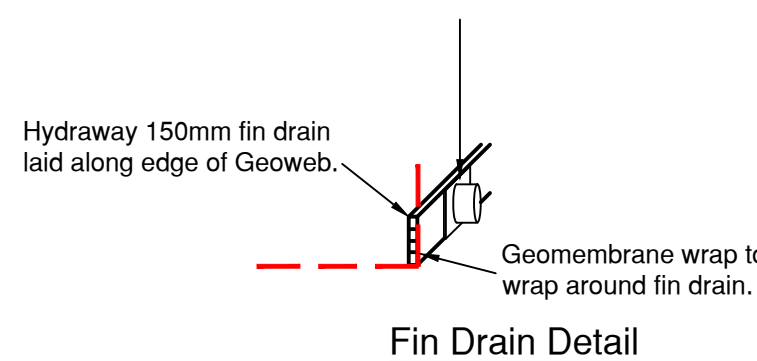
Construct a minimum of 2 and a maximum of 5 courses of 225 radial brickwork in high density type Class B solid clay engineering bricks to BS 3921. Bolster cut wedges where necessary and infill with mortar. All brickwork mortar shall be cement mortar to Clause 2404, table 24/1 designation (i). If the gully is to be trafficked within 48 hours of brickwork construction, a rapid hardening cementitious mortar shall be used.



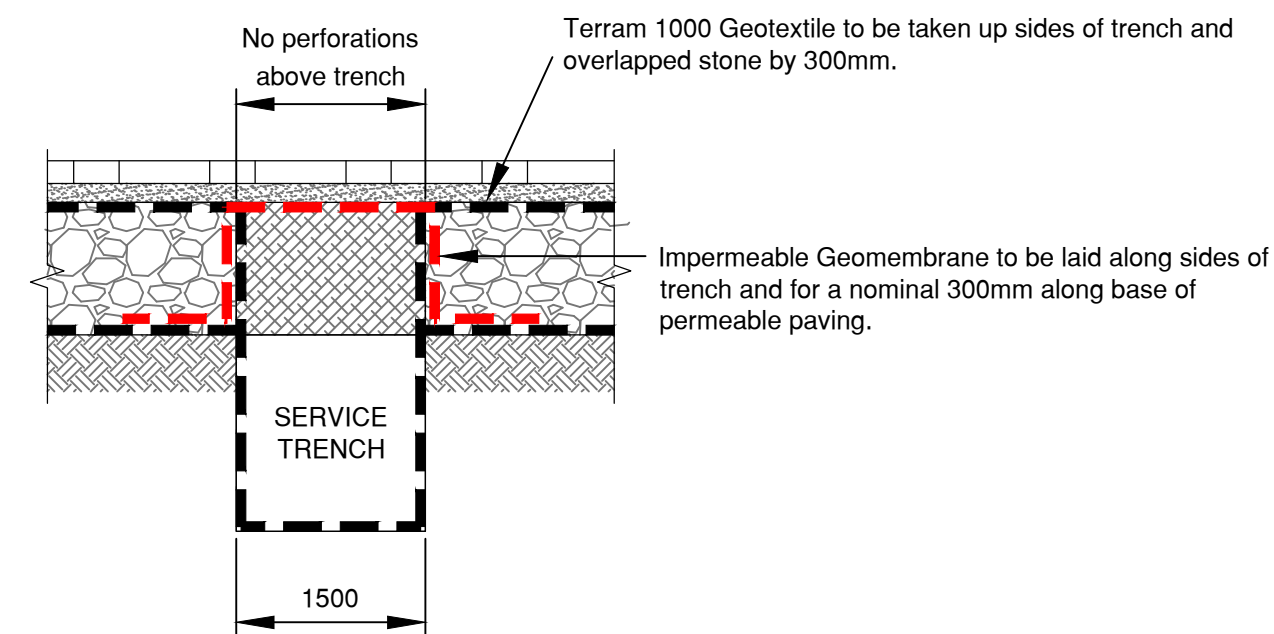
Typical Section

Typical Gully Construction Detail

Top hat outlet fixed to units through geomembrane wrap with tape, geomembrane then cut out. Flange Adapter adhesive or double sided should applied before fixing in place. All works to be in accordance with manufacturer's instructions.



Fin Drain Detail



Typical Section Through Service Trench
Where Located in Permeable Block Paving

NOTES

1. This drawing is to be read in conjunction with all other Highway Construction Details, Highways Contours Layout (DSM/4761/xxxx-xxxx), Highways Setting Out Layout (DSM/4761/xxxx-xxxx), Highways Setting Out Coordinates (DSM/4761/xxxx-xxxx).
2. All dimensions are in millimetres unless otherwise stated.
3. Do not scale from this drawing. Only written dimensions are to be used.
4. **Total carriageway construction depth must not exceed 450mm to negate susceptibility to frost penetration, irrespective of CBR value.**
5. **Block Paver Private Driveway** shall be constructed on base construction details shown on Table 13 in **NHBC Drives Paths & Landscaping 2019**.
6. Main Carriageways and Footway Highways shall be constructed in accordance with NHBC Construction Details and specifications.
7. An approved weedkiller (harmless to humans, animals and insects) is to be applied (as per manufacturer's recommendations) to all prepared formation levels of new carriageway and footways and/or as directed by the Highways Inspector.
8. Any surface caused to be damaged by the Highway during the course of the works to be repaired as directed by the Highways Inspector and/or Area Engineer.
9. No private surface water runoff shall be permitted to discharge onto the adoptable highway, or into the gutter or below the gutter. All highway gullies shall be used to intercept any conflicting water.
10. Any new trees within 3.0m of the proposed highway shall have their roots restrained by root barriers as directed by the Highways Inspector.
11. Contractor to provide suitable and effective wheel washing facilities to prevent mud from being carried onto the public highway.
12. To the satisfaction of the Highways Inspector, Area Engineer and/or Local Authority.
13. No concrete to be poured or laid in temperatures below 2 deg C on a falling maximum temperature or below 5 deg C on a rising maximum temperature (to be provided by the Contractor and displayed in a position agreed by the Highways Inspector).
14. All ballroads shall be approved by the highways inspector prior to their installation.
15. All private apparatus (gullies, rodting eyes, boxes, chambers, etc.) shall be allowed to be replaced within the adopted highway.
16. All road signs and markings to comply with The Traffic Signs Regulations and General Directions 2016. Road Markings to be thermoplastic.
17. Contractor to comply with the Traffic Signs Manual 2009.
18. Tactile paving to comply with the Guidance on the use of Tactile Paving Surfaces 1998. Tactile Pedestrian Crossings to have a 0mm upstand. All county layout of tactile paving to be agreed on site with the Highways Inspector prior to laying slabs.
19. All street lighting to be installed in accordance with County Council lighting specification.
20. Supplies to street lighting columns are to be provided by the DNO.
21. Kerbs to be butt jointed. Where kerb alignments incur 'minor open joint' problems between former subgrade and kerb jointing, the use of a 10mm wide 'minor open joint' is acceptable.
22. All full length PCC kerbs are to be mechanically hand laid.
23. All precast Kerbs & Edgings shall be BS EN 7523 1 & BS 7533-6.
24. All sets of natural stone shall be BS EN 1342.
25. All kerbs and edging to be installed in accordance with Class S1 (C68) well compacted. Unless otherwise stated this shall be a minimum bed thickness of 150mm.
26. Carriageway demarcation CS2 / concrete kerbs shall be S14 (C16/20).
27. The minimum length of kerbs and kerbs shall be 450mm.
28. The correct radius kerbs shall be set at all radii of 12m or less. For radii between 12m and 20m, 600mm long straight units shall be used. Radius kerbs shall be used to form corners of laybys and tapers.
29. Kerbs and edging to be installed using precast transition kerbs shall be installed at each change in kerb type, tie-ins to existing and at terminations.
30. All external angles on HB kerbs to be quadrants. Suitable quadrangle kerbs shall be used to form angles between quadrants.
31. Bituminous materials to comply with BS EN 13108.
32. Grading of granular sub-base material to comply with BS1377 - 1.
33. Where the sub-grade is shrinkable clay and trees have been removed or are to be planted/retained within the carriageway, the contractor shall be installed between the capping & the sub-base layers, eg Tensar Trix160 or similar approved.
34. On heavy clay soils, or where new planting is to be undertaken adjacent the footway, the contractor capping/laying the sub-base/capping/laying the sub-base shall be installed between the capping & the sub-base layers, eg Tensar Trix160 or similar approved.
35. Where the sub-grade is shrinkable clay and trees have been removed or are to be planted/retained within the carriageway, the contractor shall be installed between the capping & the sub-base layers, eg Tensar Trix160 or similar approved.
36. Overall thickness should not be less than 450mm due to frost susceptibility.
37. Cut blocks to be no less than 100mm thick.
38. Block pavers to be specified in terms of minimum 'Polished Paver Value' (PPV) and results submitted to engineer. Min value of 55.
39. A water based biodegradable sealant from approved supplier shall be used to prevent loss of sand.
40. Kilt dried sand pointing to be used in accordance with BS7533
41. Refer to geotechnical report for sulphate resisting class and AECCE class.
42. Mortars shall comply with BS EN 12620, Class 4.20 SIW.
43. Mortar joints shall comply with BS EN 12628.
44. Bricks to be engineering Class B to BS EN 771-1 and Class 4 and Class 2466 laid in Class 1 mortar bed.
45. All gully grating and frames to be 'hinged' heavy duty ductile iron minimum grade D400 in accordance with BS EN 1421: 1994 of section 508 of the Specification of Highways Works.
46. Gully pots used for carriageway gullies, shall be of precast concrete using sulphates resisting concrete to BS EN 12620, Class 4.20 SIW.
47. All buried concrete to be C16/A or B, or S or C11 A or B or S to BS 8500-2, Table 1 and Annex A.
48. Unless specified on the layout drawing, where the outlet pipe is under the carriageway, or in the verge, the manhole shall be of precast concrete. The manhole shall be given a min. 600mm cover and the manhole shall be installed between the capping & the sub-base layers, eg Tensar Trix160 or similar approved.
49. A bad 'Type Z' Where the outlet pipe is under the verge and greater than 2000 from the edge of carriageway it shall have a min. 450mm cover.
50. Concrete linels are not to be used.
51. **END OF DRAWING**
52. **FOR VARIANCE OR TO REPEATED WORKS TO BE REPORTED BACK TO RCP ENGINEERING BEFORE WORK BEGINS.**

CDM NOTES

1. EXISTING SERVICES. Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note HS (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

[illegible]

Rev.	Date	Details	By	Chkd	App
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Client:-

DREW SMITH LIMITED

Site:-

SUMMER LANE
PAGHAM

Drawing Title:-

HIGHWAY CONSTRUCTION DETAILS

SHEET 2 OF 3

Date: February 2020

LD

Checked:

PJ

TS

Drawing No.

DSM/E4761/322

INITIAL TENDER ISSUE



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**INSITU CBR TESTS TO BE UNDERTAKEN TO
VERIFY DESIGN**